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SOME THOUGHTS ON EXPERIMENTAL AREAS

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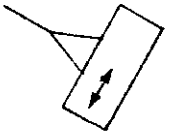
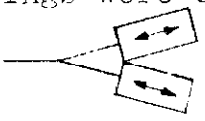
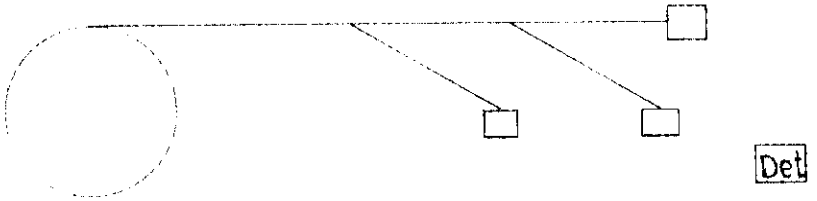
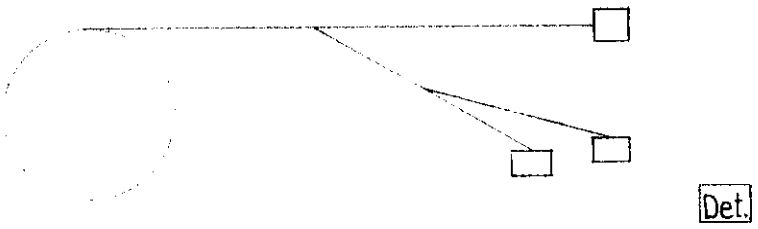
1. Keep the minimal internal area. Don't make a special section near the opening even if the stub is a little longer. Service the area with portable sub-stations and cooling towers. These can be transferred later. We'll be using portable service in our H10 area and I can get material for you when you are ready.

2. Don't get the experimental halls in the EPB too close together. Closeness made some sense to me earlier when the buildings were oriented  but not when they are 

3. Put them at different longitudinal distances from the detector area. In this regard you are probably further along if you build them as



Both this and the following should be cost estimated.



4. Beam height in experimental areas: At the AGS we're at 6-1/2 ft. and we seldom have problems. Walker complains that he has to use too many blocks to prop up magnets, etc. (I think he'll like to see less than 6-1/2 ft.) I suspect that 8 ft. would be more than enough. You'd hate to have small superconducting equipment ten feet in the air!

5. Don't pitch the EPB. A non-zero pitch would create excessive survey problems. A separate experimental plateau would be contrived, and not worth the effort for the early use of the machine. Maybe later.

6. Series use of EPB - Clearly that is desirable for efficiency, etc., but you may not be able to afford it now. You must have two distinct EPB areas, however, and they must be parallel rather than in series. The series use can be developed after turn-on if necessary.

7. Build a conventional experimental hall with movable shielding. I don't believe that one can specify a year or two ahead of turn-on what beams to use. It's clear that several beams can be built into place, but this will constrain the proposals to use those beams. Furthermore, the "experts" on these beams will dominate the experimental work--a la SLAC. The portable shielding will be usable later, and the "stylized" experimental hall might be built years later such as the last series use of the EPB.

I realize that these statements sound pat and categorical, but I pass them along for what they're worth.